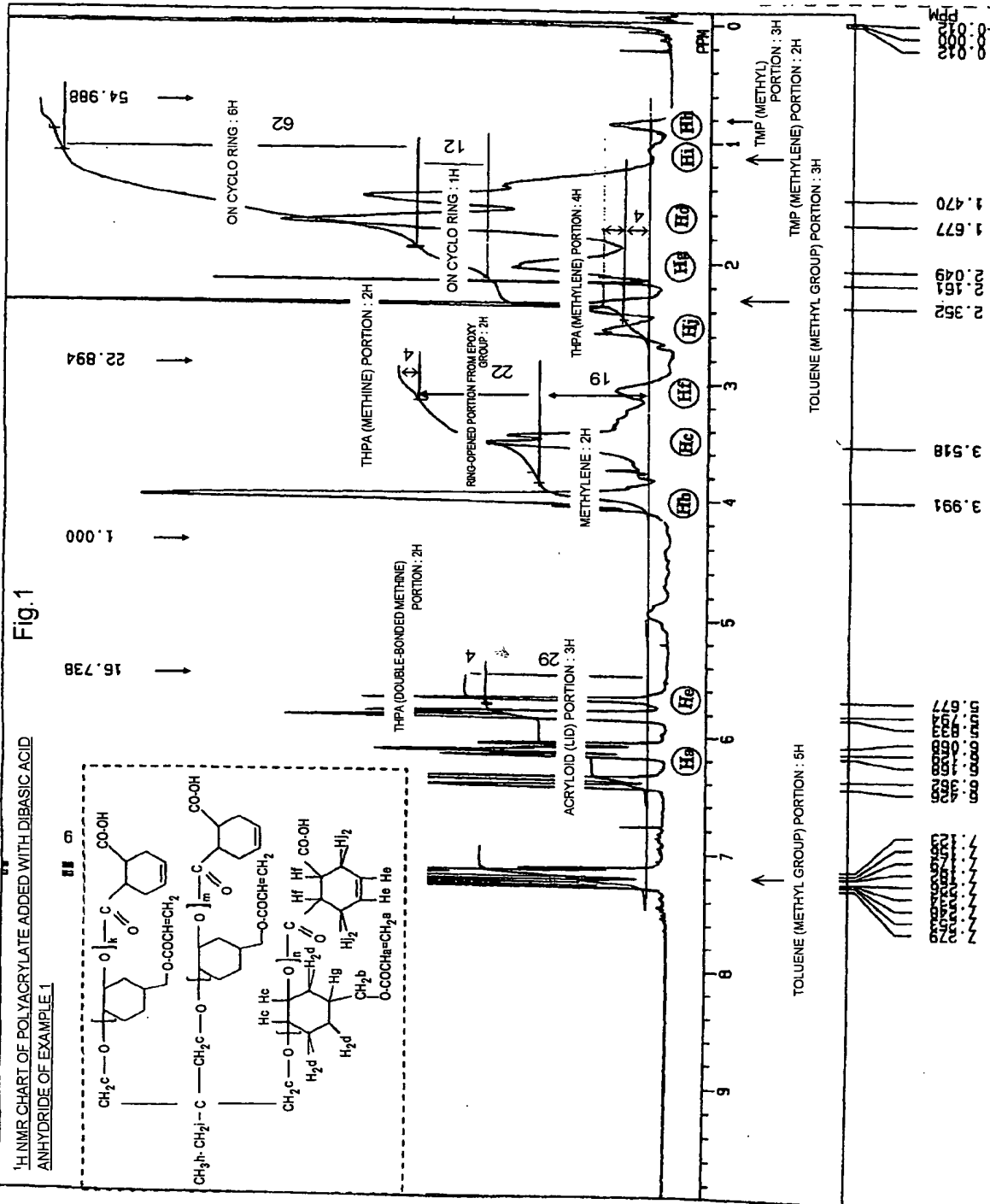


The diagram illustrates the chemical structures of several copolymers and their corresponding monomers. The copolymers are represented by repeating units in brackets, connected by bonds indicating the polymer backbone. The monomers are shown as separate chemical structures, often with labels indicating their position in the copolymer sequence.

- Top Left Copolymer:** A copolymer with a repeating unit containing a cyclohexane ring substituted with a carboxylic acid group (COOH) and a side chain $-\text{O}-\text{COCH}=\text{CH}_2$. The side chain is labeled with k and h .
- Top Right Copolymer:** A copolymer with a repeating unit containing a cyclohexane ring substituted with a carboxylic acid group (COOH) and a side chain $-\text{O}-\text{COCH}=\text{CH}_2$. The side chain is labeled with m and n .
- Bottom Left Copolymer:** A copolymer with a repeating unit containing a cyclohexane ring substituted with a carboxylic acid group (COOH) and a side chain $-\text{O}-\text{COCH}=\text{CH}_2$. The side chain is labeled with h and h .
- Bottom Right Copolymer:** A copolymer with a repeating unit containing a cyclohexane ring substituted with a carboxylic acid group (COOH) and a side chain $-\text{O}-\text{COCH}=\text{CH}_2$. The side chain is labeled with h and h .

The monomers are shown as separate chemical structures, often with labels indicating their position in the copolymer sequence. The monomers include cyclohexane rings, carboxylic acid groups, and side chains.



¹H NMR CHART OF POLYACRYLATE ADDED WITH DIBASIC ACID ANHYDRIDE OF EXAMPLE 1

